IN THE SPECIFICATION:

Please amend the specification as follows:

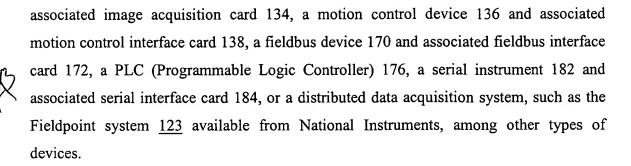Please amend the paragraph at page 1 lines 7-13 as follows:

Traditionally, high level text-based programming languages have been used by programmers in writing application programs. Many different high level programming languages exist, including BASIC, C, ~~Java~~ JAVA, FORTRAN, Pascal, COBOL, ADA, APL, etc. Programs written in these high level languages are translated to the machine language level by translators known as compilers or interpreters. The high level programming languages in this level, as well as the assembly language level, are referred to herein as conventional programming environments.

Please amend the paragraph at page 5 line 21 - page 6 line 2 as follows:

In various embodiments, different types of programs, including text-based programs, e.g., C, ~~Basic~~ BASIC, or ~~Java~~ JAVA programs, etc., and graphical programs, e.g., ~~LabVIEW~~ LABVIEW programs, may be created from a script. The program code implementing the image processing functions of the algorithm preferably has an execution time that is proportional or equivalent to the execution time of the executable code described above that is called when the algorithm runs under control of the image prototyping environment. For example, in one embodiment, the executable code called by the prototyping environment and the executable code used in the program may be the same, e.g., by calling a shared library or common component in both cases. In another embodiment, the generated program may utilize an image processing library that is associated with the image prototyping environment, e.g., a library that is provided by the vendor of the prototyping environment, so that the various image processing functions are implemented in the same way in both cases, and thus have equivalent running times.

Please amend the paragraph at page 11 line 29 – page 12 line 4 as follows:

The one or more devices may include a data acquisition board 114 and associated signal conditioning circuitry 124, a PXI instrument 118, a video device 132 and

associated image acquisition card 134, a motion control device 136 and associated motion control interface card 138, a fieldbus device 170 and associated fieldbus interface card 172, a PLC (Programmable Logic Controller) 176, a serial instrument 182 and associated serial interface card 184, or a distributed data acquisition system, such as the Fieldpoint system 123 available from National Instruments, among other types of devices.

Please amend the paragraph at page 24 line 8 - line 13 as follows:

Figure 16 illustrates a user interface for receiving information specifying a program type to create. A selectable list of various programming development environments is shown. In this example, the list includes a graphical programming development environment, ~~LabVIEW~~ LABVIEW, as well as various text-based programming environments, including ~~LabWindows~~ LABWINDOWS/CVI, Microsoft ~~Visual Basic~~ VISUAL BASIC, and Microsoft ~~Visual~~ VISUAL C++. In alternative embodiments, any of various other programming languages or development systems may be supported.